Nov 75

CARDKEY
TOTAL CONCEPT ACCESS CONTROL

CARDKEY SYSTEMS
A DIVISION OF GREER HYDRAULICS, INC.
20339 NORDHOFF STREET
CHATSWORTH, CALIFORNIA 91311
(213) 882-8111/TELEX: 651-375

Dear Sir:

We wish to thank you for the interest shown in our security product line as advertised. We recommend that you spend five to ten minutes of your valuable time to read this letter and review our newest product - the "Interrogator 880." I'm sure you will find the "Interrogator 880" to be THE answer to many of your security problems.

Cardkey Systems is the pioneer of card activated access control having been in the business approximately 30 years. Not only were we the "pioneer" and "leader" of the industry 30 years ago - we have been lead ng ever since continually bringing out new products to meet the eeds of the marketplace.

By answering our advertisement and requesting more information, u expressed your concern over data center security. It might, at is point, be appropriate to point out that there are other reasons areas worthy of security access control consideration within your acility.

It has been estimated by independent agencies that 30% of all business failures are due to internal theft or embezzlement and that internal losses are the most difficult to detect and control.

One of the main reasons for this difficulty is that a "trusted employee" knows how to make sure that missing items cannot be easily traced to him without a thorough investigation. It is also the norm that an employee usually will not "borrow" anything from his own department, for example: a girl in the accounting office would probably not take a calculator since it is in her department. However, a short walk over to engineering could furnish her husband - who we'll say is in art school - with $100.00 worth of triangles, pens, pads, etc. - she saved $100.00 and the company would never miss it.

The reverse is true of the individual in engineering who just wants to "borrow" a calculator for a few days, etc., etc.

The fact is that a company doing $100,000, 000 in sales with a half percentage point of missing inventory needs to do an additional $10,000,000 worth of business to make up for the profit loss based on only a 5% profit margin.

The best way to control missing equipment, inventory, etc. is to control the flow of people by granting access to your various areas and departments on an authorized and time-controlled basis.

If you have a need for any of the following controls -

1. to protect persons, materials, or information against unauthorized observation or removal.

2. to permit or deny entrance to, or remaining in, a given place or location.

3. to speed or slow the rate of movement to, from or within a defined place.

4. to prevent injury to persons or damage to things.

---we would be most happy to have one of our professionals assist you with a non-obligatory facility survey and recommendation.

The source data collection tasks, i.e. - payroll, inventory control, cost accounting, that may be accomplished with our "Interrogator 880" makes the controller worth over ten times its price in time savings alone.

If you have any questions, feel free to call or write the undersigned.

Sincerely,

JK:lp
Enclosures

John Kozub
Sales Manager

CARDKEY'S INTERROGATOR 880™ CENTRAL CONTROLLER

The Interrogator 880 Central Controller is a maximum security access control unit which monitors up to 128 separate Card Readers in remote locations, and controls access at those locations. A major part of the system is the invisibly coded Cardkey Securiti-Card™. The Card Reader "reads" the card to determine the unique identification number assigned to the card and transmits the data to the Central Controller. The Central Controller evaluates the data, determines whether or not access should be granted, and returns the appropriate signal to the Reader location. Any attempted entry by an invalid card is displayed on its front panel, and may be seen at a glance. When desired, all cards in use may be displayed. These fundamental features enable the Interrogator 880 to completely control the system.

Card Readers located within 1.5 miles of the Central Controller may be connected to the unit with two pairs of twisted wires. For greater distances — across town or across the country — telephone lines are utilized. Up to 16 readers may be connected per modem for digital data transmission over a telephone circuit to the Central Controller.

Interrogator 880 Central Controller

The Interrogator 880 Central Controller is available in both desk mount and standard electronic rack mount configurations. The front panel contains all user-accessible controls for controlling access levels and operational time periods at each Reader station, voiding cards, etc. A sharp digital readout display is provided, which is used both for programming the unit and for controlling and testing the daily operation of the system.

Programmable functions include:

- **Access Level Coding.** Enables mastering and sub-mastering among the Readers in the system. Up to 128 separate access levels are available.
- **Time Zones.** Up to eight time zones are available. Each time zone is programmed with a start time and a stop time, and the specific days of the week for which it applies.
- **Individual Card Key Information.** Each Card Key to be used is programmed into the Controller memory with its identification number, access level, time zone, and individual entry/exit status. To save time in programming, large consecutive groups of cards (same access level, time zone, etc.) may be programmed in one operation. A unique feature enables the replacement of a lost or stolen card with another card having the same identification number, but with a new "issue" number. The original card is voided and can no longer be used.
- **Door Operational Time.** Each door (or Card Reader) in the system may be put under time zone control by applying one of the previously programmed time zones.
- **Entrance/Exit Specification.** Each door (Reader) can be programmed for entry-exit operation, if desired.
- **System Master Clock.** A digital clock display on the front panel is used as a reference for all time-related functions. The time of day, day of the week, and day of the year are shown.

All programming is performed by means of two keyboards on the front panel. One is the typical "Touchtone" telephone keyboard, and the other contains 16 clearly marked keys to control the programming functions. A special key-operated switch on the panel restricts programming operations to authorized personnel only. Unauthorized personnel cannot change the functional parameters programmed into the Controller.

Card Readers

Cardkey's Card Readers have a unique magnetic mechanical locking feature. This feature assures that only cards belonging to the particular system will operate the Reader's magnetic lock section. Once the reader has determined that the card is a proper one for the system, it will open data transmission lines to the controller causing the individual serial number of the card to be transmitted for processing. Credit cards, similar-looking cards, or even Card Keys with a different lock code will not function in the system's readers.

System Monitoring

Various functions of the Interrogator 880 are of a nature where immediate attention of authorized personnel should be required. These functions are not only indicated on the display, but cause a local alarm in the front of the panel to sound calling for operator attention.

- Invalid or entry requests will be indicated on the display with the card number, reader number, time, etc.
- The Interrogator 880 monitors up to four separate (dry contact) alarm signals from each Reader station and provides an indication of alarm conditions. An initial alarm signal will be indicated on the display and a second signal will be generated when the alarm condition is returned to normal, also causing indication on the display.
- The central controller constantly checks card readers, peripherals and the controller itself for any malfunctions; should one occur, it will be indicated on the display.
- Indicator lamps are provided to call attention to illegal entry request, alarm signals, and if the system malfunctions.

Buffer memory is supplied for each of the afore-mentioned categories. The operator may recall from system memory such information as the identification number of invalid card, the station number of a malfunctioning reader, or the pertinent information concerning an alarm signal. Memory is provided for five of these conditions per category, if more occur only five of the most recent will be stored. When a printer is used with this system all of the afore-mentioned conditions will be printed out in the color red.

Optional Equipment

- An optional printer unit is available to provide a permanent paper tape record of alarm signals and all entry attempts, including card identification number, station number, time and date.
- The printer unit has three possible modes:
  - #1 — Print all transactions.
  - #2 — Print all voided and monitoring transactions only.
  - #3 — No print whatsoever.
- Magnetic tape or punch paper tape interfaces are available to enable the storage of all transactions for later processing through a computer for use in payroll, cost accounting, inventory control, and other source data collection applications. It is also possible to tie the output of the Interrogator 880 directly to a mainframe computer.

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Form K118 (10-74)

PLEASE RETURN THIS CARD TO CARDKEY SYSTEMS

1. Is the information you received adequate?
   ☐ Yes ☐ No
2. What additional information do you need?

_____

_____

_____

Name

Comp

Addr

City

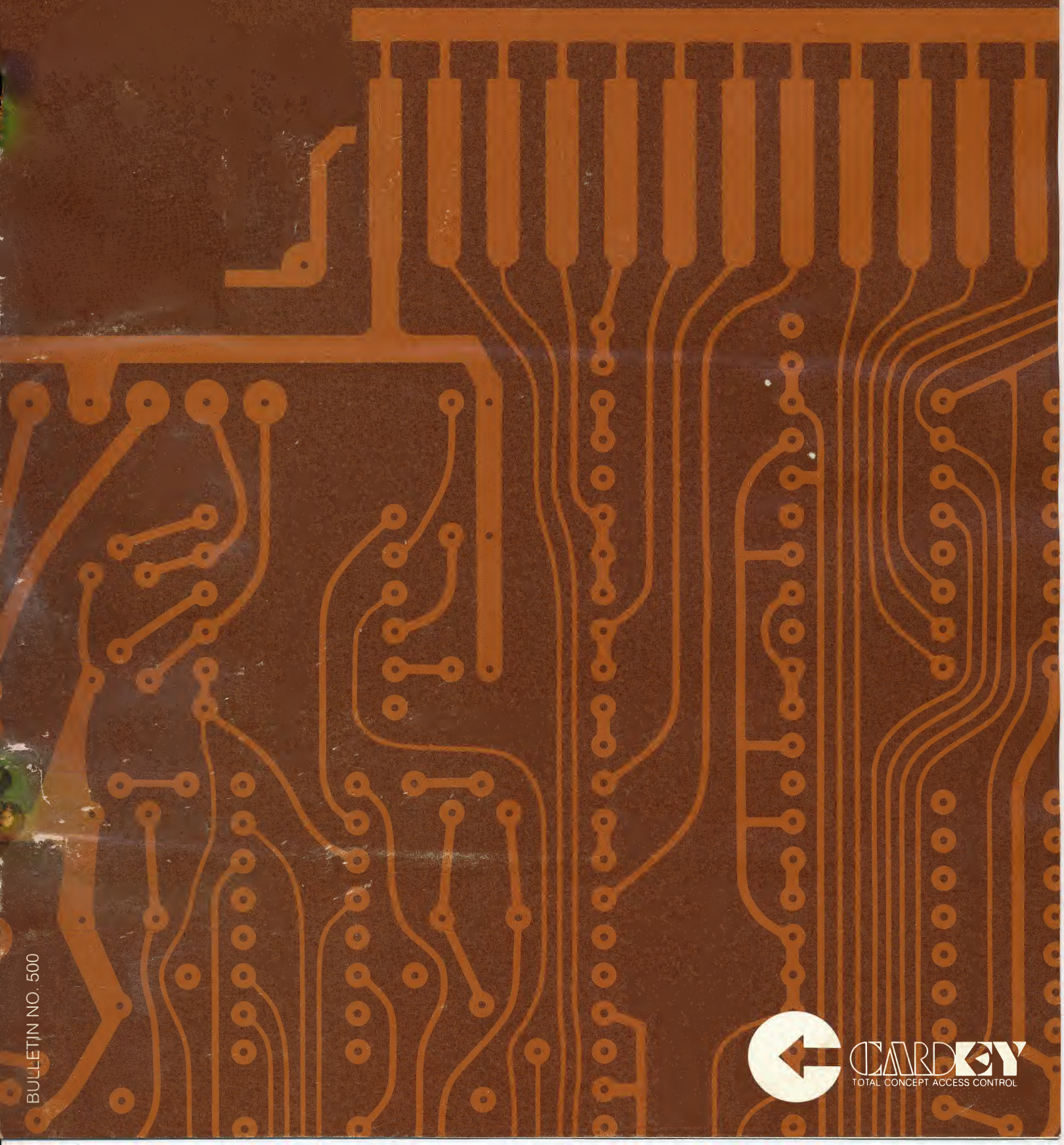
22-07870 NEL090875-12- 4
T NELSON, SYS CONSULTANT
BOX 3
SCHODEGS MOUNTAIN, NJ 07870

3. Have you been contacted by a Cardkey Representative? ☐ Yes ☐ No
4. Do you plan to purchase this type product?
   ☐ Yes ☐ No
5. Is your requirement:
   ☐ Immediate ☐ 1-3 Months
   ☐ 3-6 Months ☐ 6-12 Months
   ☐ Longer
6. Do you want us to quote prices? ☐ Yes ☐ No
7. Phone No._____

IH-10A

THE INTERROGATORS™ I, II & III

electronic keyboard access systems



BULLETIN NO. 500

CARDKEY
TOTAL CONCEPT ACCESS CONTROL


BANK OF
TORNADO
1 2 3
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CONFIDENTIAL

Cardkey Systems,

A Division of Greer Hydraulics, Inc., is the recognized world leader and innovator in the field of advanced security access control systems. And has been for over 30 years.

Cardkey's modular security information systems are upgradable to, and interfaceable with, a broad range of equipment including data communications, cameras, annunciators, alarms, lights, gates and existing telephone equipment for remote transmission across telephone wires. Multiple man-hour savings, improved security, add-on record keeping and state-of-the-art electronics is what Cardkey delivers to some of the largest companies in the world.

Our continuing research and development in the access control industry is as much for your security as our success.

The new Interrogator Series of electronic keyboard locks is just one of Cardkey's many sophisticated solutions to access control problems.

The Securiti-Card™ is the secret to Cardkey's success. It is virtually impossible to reproduce and has millions of possible coding combinations.

Information from Cardkey's invisibly coded cards may also be fed into computers, then interfaced through data communications networks, output printers, peripheral recorders and other input-output devices.

A broad range of Securiti-Cards are available. Employee I.D. cards, photocards, packetcards and custom printed cards are just a few. (See Cardkey Bulletin No. 200)

The Interrogator Concept

All locking devices are designed to protect the interior environment from unwanted intrusion. The better they do their job, the better they are.

Since there are no keys which can be duplicated, even the least sophisticated of The Interrogator Series™ of electronic keyboard locks starts off far above traditional locks.

The Interrogator Series represents a major breakthrough in the use of sophisticated, state-of-the-art, electronics in access control. Insuring proven reliability and operational efficiency.

The Interrogator *Interrogates*

Interrogators I, II and III offer the user multiple levels of security by virtue of how much confidential information they require the user to present before granting access. There are three types of credentials one might need to get past The Interrogators:

Interrogator I™—A common memorized code.
Interrogator II™—Cardkey plus a common memorized code.
Interrogator III™—Cardkey plus a personalized memorized code.

All Interrogators Feature:

- 10,000 CODES—program codes can utilize repeated digits to increase available code combinations up to 10,000.
- THUMBWHEEL SWITCH—allows instant reprogramming of keyboard code.
- TOUCHTONE KEYBOARD—easily read and operated.
- ADDED SECURITY—all controls are located in a secure area.
- TAMPER PROOF CONTROL BOX—a built-in tamper switch will signal an attempted forced entry.
- EMERGENCY POWER OPERATION—system can be operational during power failures.
- BUILT-IN BATTERY CHARGER—maintains emergency batteries fully charged (batteries not included).
- INCORRECT CODE ALARM—if an incorrect code is entered, access will be denied and an alarm will be signaled.
- ADJUSTABLE ERROR TIME CIRCUIT—prevents unauthorized persons from gaining access through random digit entry.
- ADJUSTABLE ACCESS TIMER—allows you to open the door from 1 to 10 seconds after code entry.
- DURESS FEATURE— allows an authorized user to signal a remote audible or visual alarm if he is being forced to enter, without letting the intruder know.
- PRODUCT DESIGN—the aesthetics of Cardkey's Interrogator packaging works with all architectural and interior designs.
- D.O.D. SPECIFICATIONS—meets or exceeds Department of Defense requirements.

Interrogator I™

The most basic of the series, Interrogator I, affords the user rapid entry and control of entrances and exits with error and forced entry alarm capabilities.

Access is gained by tapping the touchtone keyboard with a predetermined common memorized four digit numerical code. When required you can change that code easily by the use of thumbwheel switches, and you can use the same digit up to four times in a code. If an incorrect code is entered, access will be denied and an alarm can be signaled.

The economical, off-line, Interrogator I is specifically designed for entrances to areas where a high level of control is not required.

Interrogator II™

The Interrogator II has the ability to demand two types of credentials. A preprogrammed Securiti-Card and a common memorized three digit numerical code. The requirement of *two* credentials is what sets the Interrogator II apart from Interrogator I.

Additionally, if the card is lost, you don't have to change cards, or locks as you would with a key, since the card without the correct numerical code won't work. But you can easily change the numerical code when it becomes desirable by simply turning the thumbwheel switches. The "duress" feature allows you to signal an audible or visual alarm if you are being forced to enter, without letting the intruder know. At busy times, or for heavily trafficked areas you can switch to a "card only" mode.

The Interrogator II is an entirely solid state package that can go on-line with Cardkey's central controller units.

Interrogator III™

At the high end of the security spectrum is Interrogator III.

In order to operate Interrogator III you must first insert your Cardkey Securiti-Card, then tap out your personal memorized numerical code. Each person has his own unique Cardkey and his own unique numerical code.

There are three steps which must be completed accurately before the system can be activated. First, the encoded card must be inserted and read for proper customer code (each customer is assigned his own unique coding system), if the customer code is correct the individual identification number is read and placed into memory. You can then remove the card before tapping in your individual code. Interrogator III compares all inputs and if compatible, grants access.

To further insure the highest level of security, Interrogator III utilizes a code scrambling circuit, unique only to Cardkey equipment. Code changing may be simply and easily accomplished by means of the ten position code scramble switch. This feature makes it virtually impossible to decipher a code.

Error Annunciator Accessory

The Annunciator monitors Interrogators for incorrect push button code attempts and triggers self contained alarm if allowable number of errors is exceeded. It can be set to permit up to nine errors before triggering.

It also provides for a "door open alarm" which signals if the door remains open too long or is jammed open. Alarm can be silenced for remote signaling.

Technically Speaking...

The Interrogator Series is completely solid-state. What this means to you can best be explained this way: the latest electronic technology has been applied to insure greater reliability and longevity. It makes your system virtually maintenance free and easy to operate.

Your specific requirements will determine where each of the Interrogators is needed.

Typical applications for Interrogator I are literature storage, offices, baggage rooms, and condominiums. Interrogator II is commonly used in garages, exterior entrances, apartment buildings, computer rooms, accounting offices, drug plants, warehouses, and power plants. For maximum security Interrogator III is used in tape vaults, currency exchanges, drug storage areas, bonded warehouses, cash vaults, research and development labs and reactor rooms.

The applications for the Interrogator Series are limited only by your imagination.

The following information will assist you in preparing your requirements.

How to order:

INTERROGATOR I & II

P2 — C — 05

PRODUCT
P1: Interrogator I
P2: Interrogator II

KEYBOARD UNIT TYPE
*A: Keyboard Only
(No Lock or Reader)
C: Programmable Security Lock
(Off Line)
**E: On Line Reader (SCD Only)

KEYBOARD UNIT MOUNTING
05: Flush Mount
***13: Surface Mount,
D.O.D. Standards,
14: Surface Mount,
Weather Resistant

* Interrogator I only
** Interrogator II only
*** Not Compatible With Card Readers

INTERROGATOR III

P3 — F — 14 — B

PRODUCT
P3: Interrogator III

KEYBOARD UNIT TYPE
F: Reader

INTERFACE TYPE
A: None (Off Line) (SCD Coding Compatible)
B: Parallel (SCD)
C: None (Off Line) (Interrogator 880 Coding Compatible)
D: Serial (Interrogator 880)

KEYBOARD UNIT MOUNTING
05: Flush Mount
14: Surface Mount, Weather Resistant

Error Annunciator Accessory

S1 — A — 1

PRODUCT
S1: Error Annunciator

DC POWER SOURCE
*A: External
**B: Internal

ALARM OPTION
1: Door Alarm Function
2: Momentary Duress Alarm Function
3: Latching Duress Alarm Function

*An external DC power source is normally used. Power is obtained from the Interrogator I, II, or III through the interconnecting cable.
**The internal DC power supply is used when the interconnecting cable is greater than 500 feet long. An external transformer supplying 7.25 VAC is required.

In addition to the lock model number of the Interrogator I, II and III series as shown on the facing page, the following items should be taken into consideration when ordering to insure a complete system:

INTERROGATOR I

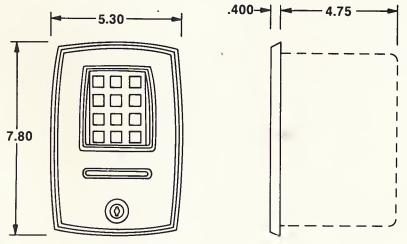
Model No.	Description
70-0017	Transformer 7.25 VAC, wall plug-in type for Interrogator power.
Note	Power for door strike not supplied. Door strike and transformer to be ordered separately.

INTERROGATOR II

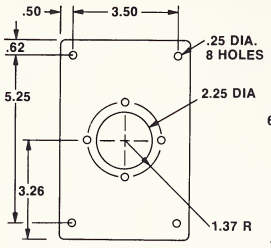
Model No.	Description
K-5	Matrix card (one required for each Interrogator II). (Off Line)
K-3, K-4, K-7, K-9	Cardkeys: for description see Cardkey Bulletin No. 200. (Off Line)
K-5R	Matrix card: (one required for each Interrogator II). On Line SCD
K-3R, K-4R, K-7R, K-9R	Cardkeys: for description see Cardkey Bulletin No. 200. On Line SCD
70-0017	Transformer 7.25 VAC, wall plug-in type for Interrogator power.
Note	Power for door strike not supplied. Door strike and transformer to be ordered separately.

INTERROGATOR III

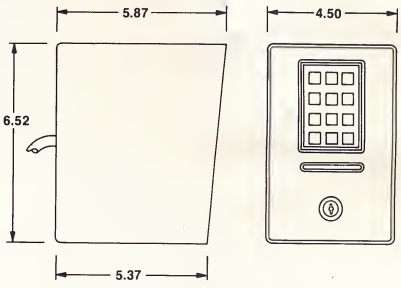
Model No.	Description
K-5R	Matrix card: (one required for each Interrogator III)
K-3R, K-4R, K-7R, K-9R	Cardkeys: for description see Cardkey Bulletin No. 200.
70-0017	Transformer 7.25 VAC, wall plug-in type for Interrogator power. (Off Line and On-line with SCD)
70-0018	Transformer: 8 VAC/16 VAC, one required. (On Line with Interrogator 880 only)
Note	Power for door strike not supplied. Door strike and transformer to be ordered separately.



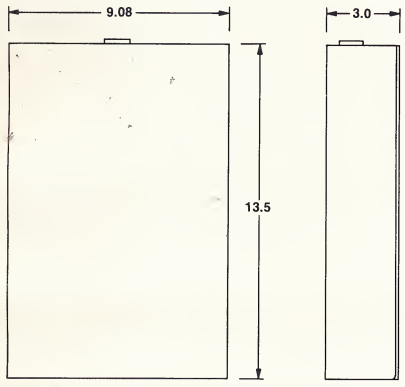
FLUSH MOUNT FOR INTERROGATORS I, II, & III



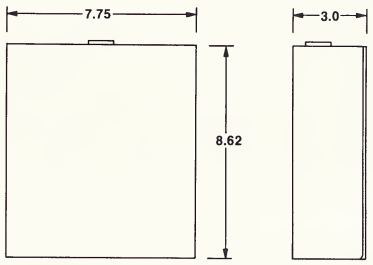
REAR VIEW



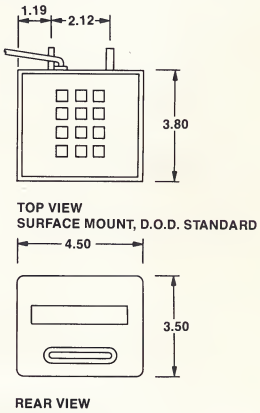
SURFACE MOUNT, WEATHER RESISTANT



ENCLOSURE FOR:
1. INTERROGATOR III CONTROL UNIT



ENCLOSURE FOR:
1. INTERROGATORS I & II CONTROL UNIT



Operating Specifications

	†Ambient Temperature	*Humidity	Power Requirements	Access Output
Interrogator I	32°F-131°F	0-95%	7.25 VAC, 0.7A	Dry contacts 5 A res. at 28 VDC or 115 VAC
Interrogator II	32°F-131°F	0-95%	7.25 VAC, 0.7A	Dry contacts 5 A res. at 28 VDC or 115 VAC
Interrogator III	32°F-131°F	0-95%	7.25 VAC, 0.9A	Dry contacts 5 A res. at 28 VDC or 115 VAC

†-30°F for readers equipped with cold weather package option. *(Non-condensing)

Specifications

GENERAL INTERROGATOR I, II & III SYSTEMS

The Access Control System shall be as manufactured by Cardkey Systems and shall include (specify number and model) access control readers and (specify number and model) Cardkey Securiti-Cards.™

CARDS

Cards shall be Securiti-Card™ access cards as manufactured by Cardkey Systems. Cards shall be capable of accepting coded bits in a scrambled pattern as a unique identification code stored within the cards. Multiple status levels shall be codeable. Cards shall be capable of being read by and operating all equipment as manufactured by Cardkey Systems. In cases where mechanical, electromechanical, and Solid State readers are used within one system any or all cards shall be capable of being read by all of the readers. Cards shall be 3⅜"x2⅛" and shall be highly resistive to wear or environmental deterioration. Cards shall be capable of being printed on any area of the card, front or back and of being produced as photo I.D. cards.

INTERROGATOR I

The Access Control System shall be of Solid State design and include a 12 pushbutton keyboard unit (specify one: flush mount, surface mount, weather resistant surface mount) and a control unit as manufactured by Cardkey Systems as the Interrogator I. No system compromise shall be available from circuitry located within the keyboard unit. All critical circuitry will be located within the independent control unit. The control unit shall be tamper proofed (tamper switch) and equipped with a keylock. The system shall operate through the entry of a four (4) digit code being tapped in on the keyboard unit. The four digit code shall be initially set and easily changed by means of four (4) rotary switches located within the secured control unit. The system shall be capable of up to 10,000 combinations. The four (4) digit code entered on the keyboard shall be capable of utilizing digits in any sequence and be able to incorporate the use of the same digit more than one time in any given code. Incorrect entries at the keyboard unit shall provide an alarm output by means of an error time circuit located within the secured control unit adjustable from 1 to 10 seconds. This error time circuit shall insure the inability of an unauthorized person(s) to randomly enter digits in attempting to compromise the system by locking out any further entries after an incorrect entry until the error time circuit has reset. An auxiliary access circuit to enable access to be granted from within the secured area shall be supplied within the secured control unit. The access output shall be a relay contact closure, located within the secured control unit, capable of AC/DC operation. Access time shall be adjustable from 1 to 10 seconds. The control unit shall be connected to the keyboard unit by means of a connecting cable. The control unit shall be capable of operating up to 500 ft. from the keyboard unit.

Add when duress option required:

A duress function shall be included within the secured control unit, to signal forced entry under duress. The output of the duress feature shall be capable of being operated on a momentary or latching basis.

INTERROGATOR II (OFF-LINE)

(See also card specifications listed above)

The access control system shall be of Solid State design. It shall include a 12 pushbutton keyboard unit with a card lock mounted within, (specify one: flush mount, surface mount, weather resistant surface mount) and a control unit as manufactured by Cardkey Systems as the Interrogator II. No system compromise shall be available from circuitry located within the keyboard unit. All critical circuitry will be located within the independent control unit. The control unit shall be tamper proofed (tamper switch) and equipped with a keylock. The card lock shall be programmed by means of a matrix card inserted into the secured side of the card lock with a unique facility code. The system shall operate through the entry of a four (4) digit code being tapped in on the keyboard unit. The card lock shall be capable of assuming the position of one of these digits. The four (4) digit code shall be initially set and easily changed by means of four (4) rotary switches located within the secured control unit. The system shall be capable of up to 10,000 combinations. The four (4) digit code entered on the keyboard shall be capable of utilizing digits in any sequence and be able to incorporate the same digit more than one time in any given code. Switches located within the secured control unit shall make the system capable of being operated by the Securiti-Card™ only, the four (4) digit code only or by a combination of both.

Incorrect entries at the keyboard unit shall provide an alarm output by means of an error time circuit located within the secured control unit adjustable from 1 to 10 seconds. This error time circuit shall insure the inability of an unauthorized person(s) to randomly enter digits in attempting to compromise the system by locking out any further entries after an incorrect entry until the error time circuit has reset. An auxiliary access circuit to enable access to be granted from within the secured area shall be supplied within the secured control unit. The access output shall be a relay contact closure, located within the secured control unit, capable of AC/DC operation. Access time shall be adjustable from 1 to 10 seconds. The control unit shall be connected to the keyboard unit by means of a connecting cable. The control unit shall be capable of operating up to 500 ft. from the keyboard unit.

Add when duress option required:

A duress function shall be included within the secured control unit, to signal forced entry under duress. The output of the duress feature shall be capable of being operated on a momentary or latching basis.

INTERROGATOR II (ON LINE)

(See Also Card Specifications listed above)

The Access Control System shall be of a Solid State design. It shall include a 12 pushbutton keyboard unit with a card reader mounted within (specify one: flush mount, weather resistant surface mount) and a control unit as manufactured by Cardkey Systems as the Interrogator II, on line system. No system compromise shall be available from circuitry located within the keyboard unit. All critical circuitry will be located within the independent control unit. The control unit shall be tamper proofed (tamper switch) and equipped with a keylock. The card reader shall have two levels of operational security. The first level shall be a magnetically operated mechanical locking section programmed by means of a matrix card inserted into the secured side of the card reader with a unique facility code. The second level shall be an electronic reading section capable of reading an invisibly coded identification number within the Securiti-Card.™ The system shall operate through the entry of a three (3) digit entry code and the insertion of a properly encoded Securiti-Card. Upon correct entry of the three (3) digit entry code and insertion of a properly encoded cardkey the invisibly encoded identification number on the cardkey shall be transmitted to a central controller for processing. If the identification number is found to be in a valid state, access shall be granted. The three (3) digit code shall be initially set and easily changed by means of three (3) rotary switches located within the secured control unit. The three (3) digit code entered on the keyboard shall be capable of utilizing digits in any sequence and be able to incorporate the same digit more than one time in any given code. Switches located within the secured control unit shall make the system capable of being operated by the Securiti-Card only or by the three (3) digit code plus the Securiti-Card.

Incorrect entries at the keyboard unit shall provide an alarm output by means of an error time circuit located within the secured control unit adjustable from 1 to 10 seconds. This error time circuit shall insure the inability of an unauthorized person(s) to randomly enter digits in attempting to compromise the system by locking out any further entries after an incorrect entry until the error time circuit has reset. An auxiliary access circuit to enable access to be granted from within the secured area shall be supplied within the secured control unit. The access output shall be a relay contact closure, located within the secured control unit, capable of AC/DC operation. Access time shall be adjustable from 1 to 10 seconds. The control unit shall be connected to the keyboard unit by means of a connecting cable. The control unit shall be capable of operating up to 500 ft. from the keyboard unit.

Add when duress option required:

A duress function shall be included within the secured control unit, to signal forced entry under duress. The output of the duress feature shall be capable of being operated on a momentary or latching basis.

INTERROGATOR III (OFF LINE)

(See also Card specifications listed above)

The Access Control System shall be of Solid State design. It shall include a 12 pushbutton keyboard unit with a card reader mounted within, (specify one: flush mount, weather resistant surface mount) and a control unit as manufactured by Cardkey Systems as the Interrogator III off-line system. No system compromise shall be available from circuitry located within the keyboard unit. All critical circuitry will be located within the independent control unit. The control unit shall be tamper proofed (tamper switch) and equipped with a keylock. The card reader shall have two levels of operational security. The first level shall be a magnetically operated mechanical locking section programmed by means of a matrix card inserted into the secured side of the reader with a unique facility code. The second level shall be an electronic reading section capable of reading an invisibly coded identification number within the Securiti-Card.™ The system shall operate through the insertion of a properly encoded Securiti-Card and the entry of a personalized four (4) digit code at the keyboard unit. The identification number within the Securiti-Card shall be instantly read (card may be removed) and held in memory located within the secured control unit. The control unit shall process this number through a portion of its circuitry to establish the unique four (4) digit code necessary for the cardholder to tap in at the keyboard. Each invisibly encoded Securiti-Card shall have a personalized individual four digit code necessary to obtain access. A ten (10) position rotary switch located within the secured control unit shall enable changes in all personalized codes through a scramble circuit. No correlation of the individual four (4) digit codes shall be possible between the invisibly encoded serial numbers or between any position of the ten (10) position rotary switch. Switches located within the secured control unit shall make the system capable of being operated by the Securiti-Card only or by the Securiti-Card plus the four (4) digit personalized code.

Incorrect entries at the keyboard unit shall provide an alarm output by means of an error time circuit located within the secured control unit adjustable from 1 to 10 seconds. This error time circuit shall insure the inability of an unauthorized person(s) to randomly enter digits in attempting to compromise the system by locking out any further entries after an incorrect entry until the error time circuit has reset. An auxiliary access circuit to enable access to be granted from within the secured area shall be supplied within the secured control unit. The access output shall be a relay contact closure, located within the secured control unit, capable of AC/DC operation. Access time shall be adjustable from 1 to 10 seconds. The control unit shall be connected to the keyboard unit by means of a connecting cable. The control unit shall be capable of operating up to 500 ft. from the keyboard unit.

A duress function shall be included within the secured control unit, to signal forced entry under duress. The output of the duress feature shall be capable of being operated on a momentary or latching basis.

INTERROGATOR III (ON LINE)

(See also Card Specifications listed above)

The Access Control System shall be of a Solid State design. It shall include a 12 pushbutton keyboard unit with a card reader mounted within (specify one: flush mount, weather resistant surface mount) and a control unit as manufactured by Cardkey Systems as the Interrogator III on-line system. No system compromise shall be available from circuitry located within the keyboard unit. All critical circuitry will be located within the independent control unit. The control unit shall be tamper proofed (tamper switch) and equipped with a keylock. The card reader shall have two levels of operational security. The first level shall be a magnetically operated mechanical locking section programmed by means of a matrix card inserted into the secured side of the reader with a unique facility code. The second level shall be an electronic reading section capable of reading an invisibly coded identification number within the Securiti-Card.™ The system shall operate through the insertion of a properly encoded Securiti-Card and the entry of a personalized four (4) digit code at the keyboard unit. The identification number within the Securiti-Card shall be instantly read, (card may be removed), and held in memory located within the secured control unit. The control unit shall process this number and establish the unique four (4) digit code necessary for the cardholder to tap in at the keyboard. Each invisibly encoded Securiti-Card shall have a personalized individual four digit code necessary to obtain access. A ten (10) position rotary switch located within the secured control unit shall enable changes in all personalized codes through a scramble circuit. No correlation of the individual four (4) digit codes shall be possible between the invisibly encoded serial numbers or between any position of the ten (10) position rotary switch. When the properly encoded Securiti-Card has been inserted and the individual personalized four (4) digit access code tapped in at the keyboard unit the invisibly encoded identification number on the Cardkey shall be transmitted to a central controller for processing. If the identification number is found to be valid access shall be granted (the control unit of the Interrogator III shall have provision for transmitting four independent dry contact closure alarm conditions over the same interface wiring). Switches located within the secured control unit shall make the system capable of being operated by the Securiti-Card only or by the Securiti-Card plus the four (4) digit personalized code.

Incorrect entries at the keyboard unit shall provide an alarm output by means of an error time circuit located within the secured control unit adjustable from 1 to 10 seconds. This error time circuit shall insure the inability of an unauthorized person(s) to randomly enter digits in attempting to compromise the system by locking out any further entries after an incorrect entry until the error time circuit has reset. An auxiliary access circuit to enable access to be granted from within the secured area shall be supplied within the secured control unit. The access output shall be a relay contact closure, located within the secured control unit, capable of AC/DC operation. Access time shall be adjustable from 1-10 seconds. The control unit shall be connected to the keyboard unit by means of a connecting cable. The control unit shall be capable of operating up to 500 ft. from the keyboard unit.

A duress function shall be included within the secured control unit, to signal forced entry under duress. The output of the duress feature shall be capable of being operated on a momentary or latching basis.

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